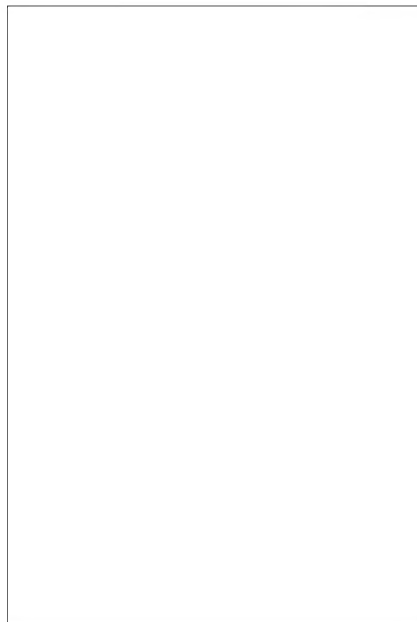




1 of 0

**NPIC DATA SYSTEM
DATA AND CONTROL SEGMENT
ACQUISITION PHASE**

**APPENDIX C2
WBS INDEX
REVISION**



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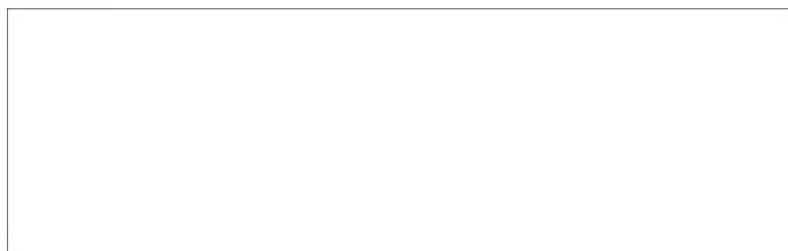
**NPIC DATA SYSTEM
DATA AND CONTROL SEGMENT
ACQUISITION PHASE**

**APPENDIX C2
WBS INDEX
REVISION**



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APPENDIX C2

WBS INDEX

As now edited, this revised WBS Index reflects the correct level 5 WBS elements for our BAFO baseline bid package. Adjustments are of four types:

- (1) Some level 5 WBS elements which were erroneously omitted, have been added.
- (2) Some level 5 (and level 6) WBS elements have been marked reserved where it was determined that they were not required for the basic bid; no Appendix C1 data sheets exist for these.
- (3) In a few instances, costs intended to go into one level 5 element were erroneously budgeted in another WBS element. These instances are appropriately identified.
- (4) In a few instances, a level 5 WBS element contains only purchase, computer, or travel cost and no labor costs. These instances are now annotated in the Index; no Appendix C1 data sheets exist for these.

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
	X						D/C Segment	140000							
		X					Project Management	241000	X		0001				
			X				Project Management	341100	X		0001				
				X			Project Management	441100	X		0001				
					X		Provide Project Management (2d & 3d Level)	541100	X		0001				
						X	Provide Project Management (2d & 3d Level) Including NDPO Interface - BOC	641100	X		0001				
						X	Provide Project Management (2d & 3d Level) Including NDPO Interface - IOC	641101	X		0001				
						X	Provide Project Management (2d & 3d Level) Including NDPO Interface - FOC	641102	X		0001				

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	1	2	3	4	5	6							
			X				Project Control	341200	X			0001	
			X				Project Control	441200	X			0001	
				X			Project Control	541200	X			0001	
				X			Monitor, Control and Report Schedule Status - BOC	641200	X			0001	
				X			Monitor, Control and Report Schedule Status - IOC	641201	X			0001	
				X			Monitor, Control and Report Schedule Status - FOC	641202	X			0001	
				X			Monitor, Control and Report Cost Status - BOC	641203	X			0001	
				X			Monitor, Control and Report Cost Status - IOC	641204	X			0001	
				X			Monitor, Control and Report Cost Status - FOC	641205	X			0001	

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	1	2	3	4	5	6									
			X				Quality Assurance	341300	X			0001			
			X				Quality Assurance	441300	X			0001			
				X			Provide & Implement Quality Assur. Plan	541300	X			0001			
			X				Provide Quality Assurance Plan - BOC	641300	X			0001			
			X				Implement Software Quality Assurance - BOC	641301	X			0001			
			X				Implement Software Quality Assurance - IOC	641302	X			0001			
			X				Implement Software Quality Assurance - FOC	641303	X			0001			
			X				Implement Hardware Quality Assurance - BOC	641304	X			0001			
			X				Implement Hardware Quality Assurance - IOC	641305	X			0001			
			X				Implement Hardware Quality Assurance - FOC	641306	X			0001			
			X				Monitor Subcontractor Quality Assurance - BOC	641307	X			0001			

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	1	2	3	4	5	6								
					X	Monitor Subcontractor Quality Assurance - IOC	641308	X			0001			
					X	Monitor Subcontractor Quality Assurance - FOC	641309	X			0001			
					X	Provide QA Audit Reports - BOC	641310	X			0001			

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	1	2	3	4	5	6									
			X				Configuration Management	341400	X			0001			
			X				Configuration Management	441400	X			0001			
				X			Provide Config. Mgmt. of HW, SW, Procedures and Documentation Per NDPO & Contractor CM Plans	541400	X			0001			
				X			Prepare and Maintain CM Plan and Procedures and Documentation - BOC	641400	X			0001			
				X			Prepare Eng'g Change Notices/Requests and Other CM Related Documents - BOC	641401	X			0001			
				X			Prepare Eng'g Change Notices/Requests and Other CM Related Documents - IOC	641402	X			0001			
				X			Prepare Eng'g Change Notices/Requests and Other CM Related Documents - FOC	641403	X			0001			
				X			Perform CM Audits - BOC	641404	X			0001			
				X			Perform CM Audits - IOC	641405	X			0001			

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	1	2	3	4	5	6							
					X		Provide Master Product & Document Control	541401	X			0001	
					X		Provide Master Product & Document Control - BOC	641407	X			0001	
					X		Provide Master Product & Document Control - IOC	641408	X			0001	
					X		Prepare and Maintain Software Version Description Document - BOC	641410	X			0001	
					X		Prepare and Maintain Software Version Description Document - IOC	641411	X			0001	
					X		Prepare and Maintain Software Version Description Document - FOC	641412	X			0001	
					X		Administer the Contractor WBS	541402	X			0001	
					X		Administer the Contractor WBS - BOC	641413	X			0001	
					X		Administer the Contractor WBS - IOC	641414	X			0001	
				X		Administer the Contractor WBS - FOC	641415	X			0001		

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	1	2	3	4	5	6									
			X				Security	341500	X			0001			
			X				Security	441500	X			0001			
				X			Security	541500	X			0001			
			X				Prepare Project Security Plan and Security Procedures - BOC	641500	X			0001			
			X				Implement Security Procedures - BOC	641501	X			0001			
			X				Implement Security Procedures - IOC	641502	X			0001			
			X				Implement Security Procedures - FOC	641503	X			0001			

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	1	2	3	4	5	6							
			X				Status Reviews	341600	X			0001	
			X				Status Reviews	441600	X			0001	
				X			Status Reviews	541600	X			0001	
				X			Provide Monthly Status Reviews - BOC	641600	X			0001	
				X			Provide Monthly Status Reviews - IOC	641601	X			0001	
				X			Provide Monthly Status Reviews - FOC	641602	X			0001	
			X				Subcontractor Management	341700	X			0001	
			X				Subcontractor Management	441700	X			0001	
				X			Provide Management, Control and Visibility to Cost & Schedule of Subcontractors	541700	X			0001	
				X			Provide Management, Control and Visibility to Cost & Schedule of - BOC	641700	X			0001	
				X			Provide Management, Control and Visibility to Cost & Schedule of - IOC	641701	X			0001	

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	1	2	3	4	5	6							
					X	Provide Management, Control and Visibility to Cost & Schedule of - FOC	641702	X			0001		
					X	Provide Management, Control and Visibility to Cost & Schedule of - BOC	641703	X			0001		
					X	Provide Management, Control and Visibility to Cost & Schedule of - IOC	641704	X			0001		
					X	Provide Management, Control and Visibility to Cost & Schedule of - FOC	641705	X			0001		
					X	Provide Management, Control and Visibility to Cost & Schedule of - BOC	641706	X			0001		
					X	Provide Management, Control and Visibility to Cost & Schedule of - IOC	641707	X			0001		
					X	Provide Management, Control and Visibility to Cost & Schedule of - FOC	641708	X			0001		

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	1	2	3	4	5	6							
			X				Document Publication and Control	341800	X			0001	
			X				Document Publication and Control	441800	X			0001	
				X			Document Publication and Control	541800	X			0001	
				X			Provide Publication, Maintenance and Control of all Project Documentation - BOC	641800	X			0001	
				X			Provide Publication, Maintenance and Control of all Project Documentation - IOC	641801	X			0001	
				X			Provide Publication, Maintenance and Control of all Project Documentation - FOC	641802	X			0001	
				X			Prepare and Administer Document Management Plan - BOC	641803	X			0001	

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	1	2	3	4	5	6										
		X					System Engineering	242000	X			0002				
			X				System Engineering Management	342100	X			0002				
				X			System Engineering Management	442100	X			0002				
					X		Provide Tech. Mgmt of Project	542100	X			0002				
						X	Provide Tech. Mgmt of Project - BOC	642100	X			0002				
						X	Provide Tech. Mgmt of Project - IOC	642101	X			0002				
						X	Provide Tech. Mgmt of Project - FOC	642102	X			0002				
						X	Provide/Enforce S/W-Opns-HW Interface Stds	542101	X			0002				
						X	Provide/Enforce S/W-Opns-HW Interface Stds - BOC	642103	X			0002				
						X	Provide/Enforce S/W-Opns-HW Interface Stds - IOC	642104	X			0002				
						X	Provide/Enforce S/W-Opns-HW Interface Stds - FOC	642105	X			0002				
						X	Prepare Segment Development Plan	542102	X			0002				
						X	Prepare Segment Development Plan - BOC	642106	X			0002				

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	1	2	3	4	5	6								
			X				Analysis	342200	X			0002		
			X				Analysis	442200	X			0002		
				X			Provide Requirements Analysis & Traceability	542200	X			0002		
				X			Provide Requirements Analysis & Traceability - BOC	642200	X			0002		
				X			Provide Requirements Analysis & Traceability - IOC	642201	X			0002		
				X			Provide Requirements Analysis & Traceability - FOC	642202	X			0002		
				X			Provide Performance Analysis	542201	X			0002		
				X			Provide Performance Analysis (Perform Tech Performance Measurements) - BOC	642203	X			0002		
				X			Provide Performance Analysis (Perform Tech Performance Measurements) - IOC	642204	X			0002		
				X			Provide Performance Analysis (Perform Tech Performance Measurements) - FOC	642205	X			0002		

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	1	2	3	4	5	6							
					X	Provide RMA Analysis	542202	X			0002		
					X	Provide RMA Analysis - BOC	642206	X			0002		
					X	Provide RMA Analysis - IOC	642207	X			0002		
					X	Provide RMA Analysis - FOC	642208	X			0002		
					X	Prepare Segment Design Analysis Report	542203	X			0002		
					X	Prepare Segment Design Analysis Report - BOC	642209	X			0002		
					X	Prepare Segment Design Analysis Report - IOC	642210	X			0002		
					X	Prepare Segment Design Analysis Report - FOC	642211	X			0002		
					X	Accomplish Trade Studies	542204	X			0002		
					X	Accomplish Trade Studies - BOC	642212	X			0002		
					X	Accomplish Trade Studies - IOC	642213	X			0002		

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	1	2	3	4	5	6									
					X	Accomplish Trade Studies - FOC	642214	X			0002	Reserved			
					X	Provide Eng. Specialties	542205	X			0002				
					X	Provide Eng. Specialties - BOC	642215	X			0002	Reserved			
					X	Provide Support to Intersegment Interface Definition & Requirements Determination	542206	X			0002				
					X	Provide Support to Intersegment Interface Definition & Requirements Determination - BOC	642218	X			0002				
					X	Provide Support to Intersegment Interface Definition & Requirements Determination - IOC	642219	X			0002				
					X	Provide Support to Intersegment Interface Definition & Requirements Determination - FOC	642220	X			0002				
					X	Prepare Eng. Technical Notes	542207	X			0002				
					X	Prepare Eng. Technical Notes - BOC	642221	X			0002				

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	1	2	3	4	5	6									
					X	Prepare Eng. Technical Notes - IOC	642222	X			0002				
					X	Prepare Eng. Technical Notes - FOC	642223	X			0002				
			X			Operations Engineering & Development	342300	X			0002				
			X			Operations Engineering & Development	442300	X			0002				
				X		Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng. - BOC	542300	X			0002				
				X		Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng. - IOC	642300	X			0002				
				X		Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng. - FOC	642301	X			0002				
				X		Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng.	642302	X			0002				
				X		Develop User Manuals	542301	X			0002				
				X		Develop User Manuals - BOC	642303	X			0002				
				X		Develop User Manuals - IOC	642304	X			0002				

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	1	2	3	4	5	6								
					X	Develop User Manuals - FOC	642305	X			0002			
					X	Develop Segment/Systems Operations Manuals	542302	X			0002			
					X	Develop Segment/Systems Operations Manuals - BOC	642306	X			0002			
					X	Develop Segment/Systems Operations Manuals - IOC	642307	X			0002			
					X	Develop Segment/Systems Operations Manuals - FOC	642308	X			0002			
					X	Conduct Productivity Enhancement Studies	542303	X			0002			
					X	Conduct Productivity Enhancement Studies - BOC	642309	X			0002			
					X	Conduct Productivity Enhancement Studies - IOC	642310	X			0002			
					X	Conduct Productivity Enhancement Studies - FOC	642311	X			0002			
					X	Prepare O & M Plan	542304	X			0002			
					X	Prepare O & M Plan - BOC	642312	X			0002			
					X	Prepare O & M Plan - IOC	642313	X			0002			
					X	Prepare O & M Plan - FOC	642314	X			0002			

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	1	2	3	4	5	6								
					X	Prepare Maintenance & Logistics Plan	542305	X			0002			
					X	Prepare Maintenance & Logistics Plan - BOC	642315	X			0002			
					X	Prepare Maintenance & Logistics Plan - IOC	642316	X			0002			
					X	Prepare Maintenance & Logistics Plan - FOC	642317	X			0002			
			X			Design	342400	X			0002			
			X			Design	442400	X			0002			
				X		Prepare Segment Design Specification Including Requirement Allocation	542400	X			0002			
				X		Prepare Segment Design Specification Including Requirement Allocation - BOC	642400	X			0002			

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	1	2	3	4	5	6							
					X	Provide Data Base Specification	542401	X			0002		
					X	Provide Data Base Specification - BOC	642401	X			0002		
					X	Provide Eng. Specialties Design	542402	X			0002		
					X	Provide Eng. Specialties Design - BOC	642402	X			0002		
					X	Develop Interface Specs.	542403	X			0002		
					X	Develop Interface Specs. - BOC	642405	X			0002		
					X	Develop Interface Specs. - IOC	642406	X			0002		
					X	Develop Interface Specs. - FOC	642407	X			0002		

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	1	2	3	4	5	6							
			X				Transition & Integration Planning and Support	342500	X			0002	
				X			Transition & Integration Planning and Support	442500	X			0002	
					X		Develop Segment Trans. & Integ. Plan	542500	X			0002	
				X			Develop Segment Trans. & Integ. Plan - BOC	642500	X			0002	
				X			Develop Segment Trans. & Integ. Plan - IOC	642501	X			0002	
				X			Develop Segment Trans. & Integ. Plan - FOC	642502	X			0002	
				X			Support Facility Planning, Installation and Checkout	542501	X			0002	
				X			Support Facility Planning, Installation and Checkout - BOC	642503	X			0002	
				X			Support Facility Planning, Installation and Checkout - IOC	642504	X			0002	
				X			Support Facility Planning, Installation and Checkout - FOC	642505	X			0002	

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	1	2	3	4	5	6							
					X		Support Transition of New Capability into the Operational Environment	542502	X			0002	
					X		Support Transition of New Capability into the Operational Environment - BOC	642506	X			0002	
					X		Support Transition of New Capability into the Operational Environment - IOC	642507	X			0002	
					X		Support Transition of New Capability into the Operational Environment - FOC	642508	X			0002	
			X				Test Support	342600	X			0002	
			X				Test Support	442600	X			0002	
				X			Prepare Segment Verification Plan	542600	X			0002	
				X			Prepare Segment Verification Plan - BOC	642600	X			0002	
				X			Prepare Segment Verification Plan - IOC	642601	X			0002	
				X			Prepare Segment Verification Plan - FOC	642602	X			0002	

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	1	2	3	4	5	6							
					X	Prepare Segment Test Plan and Prepare Procedures	542601	X			0002		
					X	Prepare Segment Test Plan - BOC	642603	X			0002		
					X	Prepare Segment Test Plan - IOC	642604	X			0002		
					X	Prepare Segment Test Plan - FOC	642605	X			0002		
					X	Support the Execution and Evaluation of Tests	542602	X			0002		
					X	Support the Execution and Evaluation of Tests - BOC	642606	X			0002		
					X	Support the Execution and Evaluation of Tests - IOC	642607	X			0002		
					X	Support the Execution and Evaluation of Tests - FOC	642608	X			0002		

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	1	2	3	4	5	6							
			X				Config. Mgmt. Support	342700	X			0002	
			X				Config. Mgmt. Support	442700	X			0002	
				X			Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control	542700	X			0002	
				X			Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control - BOC	642700	X			0002	
				X			Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control - IOC	642701	X			0002	
				X			Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control - FOC	642702	X			0002	
			X				Technical Reviews	342800	X			0002	
			X				Technical Reviews	442800	X			0002	
				X			PDR Technical Review	542800	X			0002	
				X			PDR Technical Review - BOC	642800	X			0002	

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	1	2	3	4	5	6								
					X	PDR Technical Review - IOC	642801	X			0002			
					X	PDR Technical Review - FOC	642802	X			0002			
				X		CDR Technical Review	542801	X			0002			
				X		CDR Technical Review - BOC	642803	X			0002			
				X		CDR Technical Review - IOC	642804	X			0002			
				X		CDR Technical Review - FOC	642805	X			0002			
				X		SDR Technical Review	542802	X			0002			
				X		SDR Technical Review - BOC	642806	X			0002			

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	1	2	3	4	5	6							
					X	Conduct Technical Audits/Misc. Reviews	542803	X			0002		
					X	Conduct Technical Audits/Misc. Reviews - BOC	642809	X			0002		
					X	Conduct Technical Audits/Misc. Reviews - IOC	642810	X			0002		
					X	Conduct Technical Audits/Misc. Reviews - FOC	642811	X			0002		

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	1	2	3	4	5	6								
		X					Software Development (BOC)	243000	X			0003		
			X				Software Development Management - BOC	343100	X			0003		
				X			Software Development Management - BOC	443100	X			0003		
					X		Manage All SW Devel. Activities	543100	X			0003		
						X	Manage All SW Devel. Activities	643001	X			0003		
						X	Provide & Enforce Program Design, Coding & Test Practices, Standards & Conventions	543101	X			0003		
						X	NPIC Specific Software Training (Univac System & COBOL)	643002	X			0003		
						X	Software Tool Development	643003	X			0003		
						X	Software Engineering	543102	X			0003		
						X	Software Architecture	643004	X			0003		
						X	Technical Support to Subcontract Mgmt.	643005	X			0003		
						X	Segment PPS & C	643007	X			0003		

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	1	2	3	4	5	6								
					X	COBOL Code Conversion	643008	X			0003			
					X	Software Control	543103	X			0003			
					X	Library Control	643009	X			0003			
					X	Software Builds & Releases	643010	X			0003			
					X	Provide Inputs to Segment Devel. Plan	543104	X			0003			
					X	Provide Inputs to Segment Devel. Plan	643011	X			0003			

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	1	2	3	4	5	6								
					X		Data Base Implementation (BOC)	543105	X			0003		
					X		DMS 1100 Level 6 to Level 8 Conversion	643012	X			0003		
					X		Data Base Conversion Design, Implementation, Verification	643014	X			0003		
					X		Data Base Package	643015	X			0003		
					X		Data Base Support to Development and Test & Verification	643016	X			0003		

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	1	2	3	4	5	6									
				X			BEPPRE CPCI: Pre-Exploitation - BOC	343200	X			0003			
				X			Prelim. Design	44321A	X			0003			
					X		Prepare Prelim. Design Specs	54321A	X			0003			
					X		Requirements Analysis & Allocation	643017	X			0003			
					X		Prepare Prelim. Design Part I Specs and Conduct Internal Design Reviews	643018	X			0003			
					X		Prepare Data Dictionary	643019	X			0003			
					X		Prepare Prelim. Part II Specs	643020	X			0003			
					X		Prepare CPCI Test Plan (Prelim.) Appendix for BEPPRE	643021			X	0003			

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	1	2	3	4	5	6								
				X			Critical Design	44322A	X			0003		
					X		Prepare Build-to Design Specs	54322A	X			0003		
					X		Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643022	X			0003		
					X		Prepare Prelim. Programmer's Manual	643023	X			0003		
					X		Prepare CPCI Test Plan (Final) Appendix for BEPPRE	643024		X		0003		
				X			Development	44323A	X			0003		
					X		Develop CPC's	54323A	X			0003		
					X		Code & Unit Test	643025		X		0003		
					X		Integr & Test to CPC Level	643026			X	0003		



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	1	2	3	4	5	6							
				X			Documentation	44325A	X			0003	
					X		Prepare As-built Documentation	54325A	X			0003	
					X		Prepare Inputs to User, Operator and Data Base Administration Manuals	643031	X			0003	
					X		CPCI Listings As-built	643032	X			0003	
					X		Prepare Programmer's Manual (Final)	643034	X			0003	
					X		Prepare Inputs to Training Manuals	643035	X			0003	
					X		Prepare As-built Part II Specs	643036	X			0003	

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	1	2	3	4	5	6								
				X			BEMGMT CPCI: Exploitation Management - BOC	343201	X			0003		
				X			Prelim. Design	44321B	X			0003		
					X		Prepare Prelim. Design Specs	54321B	X			0003		
					X		Requirements Analysis & Allocation	643037	X			0003		
					X		Prepare Prelim. Design Part I Specs and Conduct Internal Design Reviews	643038	X			0003		
					X		Prepare Data Dictionary	643039	X			0003		
					X		Prepare Prelim. Part II Specs	643040	X			0003		
					X		Prepare CPCI Test Plan (Prelim.) Appendix for BEMGMT	643041			X	0003		

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	1	2	3	4	5	6							
				X			Critical Design	44322B	X			0003	
				X			Prepare Build-to Design Specs	54322B	X			0003	
				X			Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643042	X			0003	
				X			Prepare Prelim. Programmer's Manual	643043	X			0003	
				X			Prepare CPCI Test Plan (Final) Appendix for BEMGMT	643044	X			0003	
				X			Development	44323B	X			0003	
				X			Develop CPC's	54323B	X			0003	
				X			Code & Unit Test	643045		X		0003	
				X			Integr & Test to CPC Level	643046			X	0003	

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	1	2	3	4	5	6								
				X			Test	44324B			X		0003	
					X		Test	54324B			X		0003	
				X			Test at the CPC and CPCI Levels	643047			X		0003	
				X			Develop SW Test Procedures	643048			X		0003	
				X			Support Test & Verification	643049			X		0003	
				X			Prepare Test Reports	643050			X		0003	

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	1	2	3	4	5	6							
			X				Documentation	44325B	X		0003		
				X			Prepare As-built Documentation	54325B	X		0003		
				X			Prepare Inputs to User, Operator and Data Base Administration Manuals	643051	X		0003		
				X			CPCI Listings As-built	643052	X		0003		
				X			Prepare Programmer's Manual (Final)	643053	X		0003		
				X			Prepare Inputs to Training Manuals	643054	X		0003		
				X			Prepare As-built Part II Specs	643055	X		0003		

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	1	2	3	4	5	6									
							BERESU								
			X				CPCI: Exploitation Results - BOC	343202	X			0003			
				X			Prelim. Design	44321C	X			0003			
					X		Prepare Prelim. Design Specs	54321C	X			0003			
				X			Requirements Analysis & Allocation	643056	X			0003			
				X			Prepare Prelim. Design Part I Specs and Conduct Internal Design Reviews	643057	X			0003			
				X			Prepare Data Dictionary	643058	X			0003			
				X			Prepare Prelim Part II Specs	643059	X			0003			
				X			Prepare CPCI Test Plan (Prelim) Appendix for BERESU	643060		X		0003			

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	1	2	3	4	5	6							
				X			Critical Design	44322C	X			0003	
				X			Prepare Build-to Design Specs	54322C	X			0003	
				X			Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643061	X			0003	
				X			Prepare Prelim. Programmer's Manual	643062	X			0003	
				X			Prepare CPCI Test Plan (Final) Appendix for BERESU	643063		X		0003	
				X			Development	44323C	X			0003	
				X			Develop CPC's	54323C	X			0003	
				X			Code & Unit Test	643064		X		0003	
				X			Integr. & Test to CPC Level	643065		X		0003	

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	1	2	3	4	5	6								
				X	.		Test	44324C			X		0003	
				X			Test	54324C			X		0003	
				X			Test at the CPC and CPCI Levels	643066			X		0003	
				X			Develop SW Test Procedures	643067			X		0003	
				X			Support Test & Verification	643068			X		0003	
				X			Prepare Test Reports	643069			X		0003	

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	1	2	3	4	5	6										
				X			Documentation	44325C	X				0003			
					X		Prepare As-built Documentation	54325C	X				0003			
				X			CPCI Listings As-built	643071	X				0003			
				X			Prepare As-built Part II Specs	643074	X				0003			

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	1	2	3	4	5	6							
				X			Critical Design	44322E	X			0003	
					X		Prepare Build-to Design Specs.	54322E	X			0003	
					X		Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643098	X			0003	
					X		Prepare Prelim. Programmer's Manual	643099	X			0003	
					X		Prepare CPCI Test Plan (Final) Appendix for BMANIP	643100	X			0003	
				X			Development	44323E	X			0003	
				X			Develop CPC's	54323E	X			0003	
					X		Code & Unit Test	643101		X		0003	
					X		Integr. & Test to CPC Level	643102			X	0003	

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	1	2	3	4	5	6									
				X			Test	44324E			X	0003			
					X		Test	54324E			X	0003			
					X		Test at the CPC and CPCI Levels	643103			X	0003			
					X		Develop SW Test Procedures	643104			X	0003			
					X		Support Test & Verification	643105			X	0003			
					X		Prepare Test Reports	643106			X	0003			

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	1	2	3	4	5	6							
				X			Documentation	44325E	X			0003	
					X		Prepare As-built Documentation	54325E	X			0003	
				X			Prepare Inputs to User, Operator and Data Base Administration Manuals	643107	X			0003	
				X			CPCI Listings As-built	643108	X			0003	
				X			Prepare Programmer's Manual (Final)	643109	X			0003	
				X			Prepare Inputs to Training Manuals	643110	X			0003	
				X			Prepare As-built Part II Specs	643111	X			0003	

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	1	2	3	4	5	6									
			X				BSTATR CPCI: Statistics Reporting - BOC	343205	X			0003			
			X				Prelim. Design	44321F	X			0003			
				X			Prepare Prelim. Design Specs.	54321F	X			0003			
				X			Requirements Analysis & Allocation	643112	X			0003			
				X			Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643113	X			0003			
				X			Prepare Data Dictionary	643114	X			0003			
				X			Prepare Prelim. Part II Specs.	643115	X			0003			
				X			Prepare CPCI Test Plan (Prelim.) Appendix to BSTATR	643116		X		0003			

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	1	2	3	4	5	6							
				X			Critical Design	44322F	X			0003	
					X		Prepare Build-to Design Specs.	54322F	X			0003	
					X		Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643117	X			0003	
					X		Prepare Prelim. Programmer's Manual	643118	X			0003	
					X		Prepare CPCI Test Plan (Final) Appendix for BSTATR	643119		X		0003	
				X			Development	44323F	X			0003	
					X		Develop CPC's	54323F	X			0003	
					X		Code & Unit Test	643120		X		0003	
					X		Integr. & Test to CPC Level	643121		X		0003	

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	1	2	3	4	5	6									
				X			Test	44324F			X	0003			
					X		Test	54324F			X	0003			
					X		Test at the CPC and CPCI Levels	643122			X	0003			
					X		Develop SW Test Procedures	643123			X	0003			
					X		Support Test & Verification	643124			X	0003			
					X		Prepare Test Reports	643125			X	0003			

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	1	2	3	4	5	6										
				X			Documentation	44325F	X				0003			
				X			Prepare As-built Documentation	54325F	X				0003			
				X			CPCI Listings As-built	643127	X				0003			
				X			Prepare As-built Part II Specs.	643130	X				0003			

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	1	2	3	4	5	6									
							BMMGMT								
			X				CPCI: Materials Management - BOC	343207	X			0003			
				X			Prelim. Design	44321H	X			0003			
					X		Prepare Prelim. Design Specs.	54321H	X			0003			
					X		Requirements Analysis & Allocation	643149	X			0003			
					X		Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643150	X			0003			
					X		Prepare Data Dictionary	643151	X			0003			
					X		Prepare CPCI Test Plan (Prelim.) Appendix for BMMGMT	643153		X		0003			

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	1	2	3	4	5	6						
49				X			Critical Design	44322H	X		0003	
				X			Prepare Build-to Design Specs	54322H	X		0003	
				X			Prepare Prelim. Programmer's Manual	643155	X		0003	
				X			Prepare CPCI Test Plan (Final) Appendix for BMMGMT	643156	X		0003	
				X			Development	44323H	X		0003	
				X			Develop CPC's	54323H	X		0003	
				X			Integr. & Test to CPC Level	643158		X	0003	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Test	44324H			X		0003		
					X		Test	54324H			X		0003		
					X		Test at the CPC and CPCI Levels	643159			X		0003		
					X		Develop SW Test Procedures	643160			X		0003		
					X		Support Test & Verification	643161			X		0003		
					X		Prepare Test Reports	643162			X		0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Documentation	44325H	X			0003	
				X			Prepare As-built Documentation	54325H	X			0003	
				X			CPCI Listings As-built	643163	X			0003	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			BCCNTR						
				X			CPCI: Command & Control - BOC	343208	X		0003		
				X			Prelim. Design	44321I	X		0003		
				X			Prepare Prelim. Design Specs.	54321I	X		0003		
				X			Requirements Analysis & Allocation	643167	X		0003		
				X			Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643168	X		0003		
				X			Prepare Data Dictionary	643169	X		0003		
				X			Prepare Prelim. Part II Specs.	643170	X		0003		
				X			Prepare CPCI Test Plan (Prelim.) Appendix for BCCNTR	643171		X	0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Critical Design	44322I	X			0003	
				X			Prepare Build-to Design Specs.	54322I	X			0003	
				X			Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643172	X			0003	
				X			Prepare Prelim. Programmer's Manual	643173	X			0003	
				X			Prepare CPCI Test Plan (Final) Appendix for BCCNTR	643174		X		0003	
				X			Development	44323I	X			0003	
				X			Develop CPC's	54323I	X			0003	
				X			Code & Unit Test	643175		X		0003	
				X			Integr. & Test to CPC Level	643176		X		0003	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6						
				X			Test	44324I	X	0003		
				X			Test	54324I	X	0003		
				X			Test at the CPC and CPCI Levels	643177	X	0003		
				X			Develop SW Test Procedures	643178	X	0003		
				X			Support Test & Verification	643179	X	0003		
				X			Prepare Test Reports	643180	X	0003		



WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
			X				BQUERY CPCI: Query - BOC	343209	X			0003	
			X				Prelim. Design	44321J	X			0003	
				X			Prepare Prelim. Design Specs.	54321J	X			0003	
				X			Requirements Analysis & Allocation	643186	X			0003	
				X			Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643187	X			0003	
				X			Prepare Data Dictionary	643188	X			0003	
				X			Prepare Prelim. Part II Specs.	643189	X			0003	
				X			Prepare CPCI Test Plan (Prelim.) Appendix for BQUERY	643190		X		0003	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			Critical Design	44322J	X			0003		
				X			Prepare Build-to Design Specs.	54322J	X			0003		
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643191	X			0003		
				X			Prepare CPCI Test Plan (Final) Appendix for BQUERY	643192			X	0003		
				X			Development	44323J	X			0003		
				X			Develop CPC's	54323J	X			0003		
				X			Code & Unit Test	643193		X		0003		
				X			Integr. & Test to CPC Level	643194			X			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Test	44324J			X	0003	
					X		Test	54324J			X	0003	
				X			Test at the CPC and CPCI Levels	643195			X	0003	
				X			Develop SW Test Procedures	643196			X	0003	
				X			Support Test & Verification	643197			X	0003	
				X			Prepare Test Reports	643198			X	0003	

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Documentation	44325J	X			0003			
				X			Prepare As-built Documentation	54325J	X			0003			
				X			CPCI Listings As-built	643200	X			0003			
				X			Prepare As-built Part II Specs.	643203	X			0003			

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			BAPPLS								
				X			CPCI: Application Support - BOC	343210	X		0003				
				X			Prelim. Design	44321K	X		0003				
					X		Prepare Prelim. Design Specs.	54321K	X		0003				
					X		Requirements Analysis & Allocation	643204	X		0003				
					X		Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643205	X		0003				
					X		Prepare Data Dictionary	643206	X		0003				
					X		Prepare Prelim. Part II Specs.	643207	X		0003				
					X		Prepare CPCI Test Plan (Prelim.) Appendix for BAPPLS	643208		X					

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Critical Design	44322K	X				0003		
					X		Prepare Build-to Design Specs.	54322K	X				0003		
					X		Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643209	X				0003		
					X		Prepare Prelim. Programmer's Manual	643210	X				0003		
					X		Prepare CPCI Test Plan (Final) Appendix for BAPPLS	643211		X			0003		
				X			Development	44323K	X				0003		
				X			Develop CPC's	54323K	X				0003		
					X		Code & Unit Test	643212		X			0003		
					X		Integr. & Test to CPC Level	643213		X			0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Test	44324K			X	0003	
					X		Test	54324K			X	0003	
					X		Test at the CPC and CPCI Levels	643214			X	0003	
					X		Develop SW Test Procedures	643215			X	0003	
					X		Support Test & Verification	643216			X	0003	
					X		Prepare Test Reports	643217			X	0003	

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Documentation	44325K	X				0003		
					X		Prepare As-built Documentation	54325K	X				0003		
					X		CPCI Listings As-built	643219	X				0003		
					X		Prepare Programmer's Manual (Final)	643220	X				0003		
					X		Prepare Inputs to Training Manuals	643221	X				0003		
					X		Prepare As-built Part II Specs.	643222	X				0003		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
			X				BDMAPS								
				X			CPCI: DBM Application Support - BOC	343211	X		0003				
					X		Prelim. Design	44321L	X		0003				
						X	Prepare Prelim. Design Specs.	54321L	X		0003				
					X		Requirements Analysis & Allocation	643223	X		0003				
					X		Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643224	X		0003				
					X		Prepare Data Dictionary	643225	X		0003				
					X		Prepare Prelim. Part II Specs.	643226	X		0003				
					X		Prepare CPCI Test Plan (Prelim.) Appendix for BDMAPS	643227		X	0003				

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Critical Design	44322L	X			0003			
					X		Prepare Build-to Design Specs	54322L	X			0003			
					X		Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643228	X			0003			
					X		Prepare Prelim. Programmer's Manual	643229	X			0003			
					X		Prepare CPCI Test Plan (Final) Appendix for BDMAPS	643230		X		0003			
				X			Development	44323L	X			0003			
					X		Develop CPC's	54323L	X			0003			
					X		Code & Unit Test	643231		X		0003			
					X		Integr. & Test to CPC Level	643232		X		0003			

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Test	44324L			X	0003			
					X		Test	54324L			X	0003			
					X		Test at the CPC and CPCI Levels	643233			X	0003			
					X		Develop SW Test Procedures	643234			X	0003			
					X		Support Test & Verification	643235			X	0003			
					X		Prepare Test Reports	643236			X	0003			

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
				X			Documentation	44325L	X			0003				
				X			Prepare As-built Documentation	54325L	X			0003				
				X			CPCI Listings As-built	643238	X			0003				
				X			Prepare As-built Part II Specs.	643241	X			0003				

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Critical Design	44322M	X			0003	
					X		Prepare Build-to Design Specs	54322M	X			0003	
					X		Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643247	X			0003	
					X		Prepare Prelim. Programmer's Manual	643248	X			0003	
					X		Prepare CPCI Test Plan (Final) Appendix for BTTDEV	643249		X		0003	
				X			Development	44323M	X			0003	
				X			Develop CPC's	54323M	X			0003	
					X		Code & Unit Test	643250		X		0003	
					X		Integr. & Test to CPC Level	643251		X		0003	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X		Test	44324M			X	0003			
				X		Test	54324M			X	0003			
				X		Test at the CPC and CPCI Levels	643252			X	0003			
				X		Develop SW Test Procedures	643253			X	0003			
				X		Support Test & Verification	643254			X	0003			
				X		Prepare Test Reports	643255			X	0003			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			Documentation	44325M	X			0003		
					X		Prepare As-built Documentation	54325M	X			0003		
					X		Prepare Inputs to User, Operator and Data Base Administration Manuals	643256	X			0003		
					X		CPCI Listings As-built	643257	X			0003		
					X		Prepare Programmer's Manual (Final)	643258	X			0003		
					X		Prepare Inputs to Training Manuals	643259	X			0003		
					X		Prepare As-built Part II Specs.	643260	X			0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT		RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82			
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
			X				WAPPLS						
			X				CPCI: Work Station Applications - BOC	343213	X			0003	
			X				Prelim. Design	44321N	X			0003	
				X			Prepare Prelim. Design Specs.	54321N	X			0003	
			X				Requirements Analysis & Allocation	643261	X			0003	
			X				Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643262	X			0003	
			X				Prepare Data Dictionary	643263	X			0003	
			X				Prepare Prelim. Part II Specs.	643264	X			0003	
			X				Prepare CPCI Test Plan (Prelim.) Appendix for WAPPLS	643265		X		0003	

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Critical Design	44322N	X			0003			
				X			Prepare Build-to Design Specs.	54322N	X			0003			
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643266	X			0003			
				X			Prepare Prelim. Programmer's Manual	643267	X			0003			
				X			Prepare CPCI Test Plan (Final) Appendix for WAPPLS	643268		X		0003			
				X			Development	44323N	X			0003			
				X			Develop CPC's	54323N	X			0003			
				X			Code & Unit Test	643269		X		0003			
				X			Integr. & Test to CPC Level	643270		X		0003			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Test	44324N			X	0003			
					X		Test	54324N			X	0003			
				X			Test at the CPC and CPCI Levels	643271			X	0003			
				X			Develop SW Test Procedures	643272			X	0003			
				X			Support Test & Verification	643273			X	0003			
				X			Prepare Test Reports	643274			X	0003			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			44325N	X			0003		
					X		54325N	X			0003		
				X			643275	X			0003		
					X		643276	X			0003		
				X			643277	X			0003		
				X			643278	X			0003		
				X			643279	X			0003		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
			X				BEXSUP								
			X				CPCI: Exploitation Support - BOC	343214	X		0003				
			X				Prelim. Design	44321□	X		0003				
				X			Prepare Prelim. Design Specs.	54321□	X		0003				
				X			Requirements Analysis & Allocation	643280	X		0003				
				X			Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643281	X		0003				
				X			Prepare Data Dictionary	643282	X		0003				
				X			Prepare Prelim. Part II Specs.	643284	X		0003				
				X			Prepare CPCI Test Plan (Prelim.) Appendix for BEXSUP	643285		X	0003				

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Critical Design	44322□	X			0003			
				X			Prepare Build-to Design Specs.	54322□	X			0003			
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643286	X			0003			
				X			Prepare Prelim. Programmer's Manual	643287	X			0003			
				X			Prepare CPCI Test Plan (Final) Appendix for BEXSUP	643288		X		0003			
				X			Development	44323□	X			0003			
				X			Develop CPC's	54323□	X			0003			
				X			Code & Unit Test	643289		X		0003			
				X			Integr. & Test to CPC Level	643290		X		0003			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X		Test	44324□			X	0003		
					X	Test	54324□			X	0003		
					X	Test at the CPC and CPCI Levels	643291			X	0003		
					X	Develop SW Test Procedures	643292			X	0003		
					X	Support Test & Verification	643293			X	0003		
					X	Prepare Test Reports	643294			X	0003		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Documentation	44325□	X			0003	
					X		Prepare As-built Documentation	54325□	X			0003	
					X		Prepare Inputs to User, Operator and Data Base Administration Manuals	643295	X			0003	
					X		CPCI Listings As-built	643296	X			0003	
					X		Prepare Programmer's Manual (Final)	643298	X			0003	
					X		Prepare Inputs to Training Manuals	643299	X			0003	
					X		Prepare As-built Part II Specs.	643300	X			0003	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
08		X					244000	X			0004		
			X				344100	X			0004		
				X			444100	X			0004		
					X		544100	X			0004		
					X		644001	X			0004		
					X		544101	X			0004		
						X	644005	X			0004		
					X		544102	X			0004		
					X		644006	X			0004		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT		RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82			
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
					X	COBOL Code Conversion	644007	X			0004		
					X	Software Control	644008	X			0004		
				X		Library Control	544103	X			0004		
				X		Software Builds & Releases	644009	X			0004		
				X		Provide Inputs to Segment Devel. Plan	544104	X			0004		
				X		Provide Inputs to Segment Devel. Plan	644010	X			0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X		Data Base Implementation (IOC)	544105	X			0004		
					X		Data Base Conversion Design, Implementation, Verification	644012	X			0004		
					X		Data Base Package	644013	X			0004		
					X		Data Base Support to Development and Test & Verification	644014	X			0004		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
			X				BEPPRE								
				X			CPCI: Pre-Exploitation - IOC	344200	X		0004	} BEPPRE CPCI costs were erroneously budgeted in the BEPPRE WBS's for BOC, page 29.			
				X			Critical Design	44422A	X		0004				
					X		Prepare Build-to Design Specs.	54422A	X		0004				
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644015	X		0004				
				X			Prepare Prelim. Programmer's Manual	644016	X		0004				
				X			Prepare CPCI Test Plan (Final) Appendix for BEPPRE	644017		X	0004				
			X				Development	44423A	X		0004				
				X			Develop CPC's	54423A	X		0004				
			X				Code & Unit Test	644018		X	0004				
			X				Integr. & Test to CPC Level	644019		X	0004				

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			Test	44424A			X	0004	} BEPPRE CPCI costs were erroneously budgeted in the BEPPRE WBS's for BOC, page 30.	
				X			Test	54424A			X	0004		
				X			Test at the CPC & CPCI Levels	644020			X	0004		
				X			Develop SW Test Procedures	644021			X	0004		
				X			Support Test & Verification	644022			X	0004		
				X			Prepare Test Reports	644023			X	0004		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Documentation	44425A	X			0004	} BEPPRE CPCI costs were erroneously budgeted in the BEPPRE WBS's for BOC, page 31.		
				X			Prepare As-built Documentation	54425A	X			0004			
				X			CPCI Listings As-built	644025	X			0004			
				X			Prepare Programmer's Manual (Final)	644026	X			0004			
				X			Prepare As-built Part II Specs.	644028	X			0004			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
			X				BEMGMT							
			X				CPCI: Exploitation Management - IOC	344201	X			0004		
			X				Critical Design	44422B	X			0004		
				X			Prepare Build-to Design Specs.	54422B	X			0004		
			X				Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644029	X			0004		
			X				Prepare Prelim. Programmer's Manual	644030	X			0004		
			X				Prepare CPCI Test Plan (Final) Appendix for BEMGMT	644031		X		0004		
			X				Development	44423B	X			0004		
				X			Develop CPC's	54423B	X			0004		
			X				Code & Unit Test	644032		X		0004		
			X				Integr. & Test to CPC Level	644033		X		0004		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u>		CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
				X			Test	44424B			X	0004				
					X		Test	54424B			X	0004				
					X		Test at the CPC & CPCI Levels	644034			X	0004				
					X		Develop SW Test Procedures	644035			X	0004				
					X		Support Test & Verification	644036			X	0004				
					X		Prepare Test Reports	644037			X	0004				

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			44425B	X			0004		
					X		54425B	X			0004		
				X			644039	X			0004		
				X			644040	X			0004		
				X			644041	X			0004		
				X			644042	X			0004		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			BERESU								
				X			CPCI: Exploitation Results - IOC	344202	X			0004			
				X			Critical Design	44422C	X			0004			
					X		Prepare Build-to Design Specs.	54422C	X			0004			
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644043	X			0004			
				X			Prepare Prelim. Programmer's Manual	644044	X			0004			
				X			Prepare CPCI Test Plan (Final) Appendix for BERESU	644045		X		0004			
				X			Development	44423C	X			0004			
				X			Develop CPC's	54423C	X			0004			
				X			Code & Unit Test	644046		X		0004			
				X			Integr. & Test to CPC Level	644047		X		0004			

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Test	44424C	X			0004			
				X			Test	54424C	X			0004			
				X			Test at the CPC & CPCI Levels	644048	X			0004			
				X			Develop SW Test Procedures	644049	X			0004			
				X			Support Test & Verification	644050	X			0004			
				X			Prepare Test Reports	644051	X			0004			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
			X				Documentation	44425C	X			0004		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			BMANIP								
				X			CPCI: Data Manipulation - IOC	344203	X			0004			
				X			Critical Design	44422D	X			0004			
					X		Prepare Build-to Design Specs.	54422D	X			0004			
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644057	X			0004			
				X			Prepare Prelim. Programmer's Manual	644058	X			0004			
				X			Prepare CPCI Test Plan (Final) Appendix for BMANIP	644059		X		0004			
				X			Development	44423D	X			0004			
				X			Develop CPC's	54423D	X			0004			
				X			Code & Unit Test	644060		X		0004			
				X			Integr. & Test to CPC Level	644061		X		0004			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			Test	44424D			X	0004		
					X		Test	54424D			X	0004		
					X		Test at the CPC & CPCI Levels	644062			X	0004		
					X		Develop SW Test Procedures	644063			X	0004		
					X		Support Test & Verification	644064			X	0004		
					X		Prepare Test Reports	644065			X	0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER				
	1	2	3	4	5	6											
				X			Documentation	44425D	X			0004					
				X			Prepare As-built Documentation	54425D	X			0004					
				X			Prepare Inputs to User, Operator and Data Base Admin. Manuals	644066	X			0004					
				X			CPCI Listings As-built	644067	X			0004					
				X			Prepare Programmer's Manual (Final)	644068	X			0004					
				X			Prepare Inputs to Training Manuals	644069	X			0004					
				X			Prepare As-built Part II Specs.	644070	X			0004					

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			BSTATR								
				X			CPCI: Statistics Reporting - IOC	344204	X		0004				
				X			Critical Design	44422E	X		0004				
				X			Prepare Build-to Design Specs.	54422E	X		0004				
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644071	X		0004				
				X			Prepare Prelim. Programmer's Manual	644072	X		0004				
				X			Prepare CPCI Test Plan (Final) Appendix for BSTATR	644073		X	0004				
				X			Development	44423E	X		0004				
				X			Develop CPC's	54423E	X		0004				
				X			Code & Unit Test	644074		X	0004				
				X			Integr. & Test to CPC Level	644075		X	0004				



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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Documentation	44425E	X			0004			
				X			Prepare As-built Documentation	54425E	X			0004			
				X			CPCI Listings As-built	644082	X			0004			
				X			Prepare Programmer's Manual (Final)	644083	X			0004			
				X			Prepare As-built Part II Specs.	644085	X			0004			

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LINE NO.	. WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			BMMGMT								
				X			CPCI: Materials Management - IOC	344206	X			0004			
				X			Critical Design	44422G	X			0004			
				X			Prepare Build-to Design Specs.	54422G	X			0004			
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644100	X			0004			
				X			Prepare Prelim. Programmer's Manual	644101	X			0004			
				X			Prepare CPCI Test Plan (Final) Appendix for BMMGMT	644102		X		0004			
				X			Development	44423G	X			0004			
				X			Develop CPC's	54423G	X			0004			
				X			Code & Unit Test	644103		X		0004			
				X			Integr. & Test to CPC Level	644104		X		0004			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			Test	44424G			X	0004	These test costs were erroneously budgeted in WBS #54423G, Develop CPC's, page 98.	
				X			Test	54424G			X	0004		
				X			Test at the CPC & CPCI Levels	644105			X	0004		
				X			Develop SW Test Procedures	644106			X	0004		
				X			Support Test & Verification	644107			X	0004		
				X			Prepare Test Reports	644108			X	0004		



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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X		BCCNTR								
				X		CPCI: Command & Control - IOC	344207	X			0004			
				X		Critical Design	44422H	X			0004			
				X		Prepare Build-to Design Specs.	54422H	X			0004			
				X		Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644114	X			0004			
				X		Prepare Prelim. Programmer's Manual	644115	X			0004			
				X		Prepare CPCI Test Plan (Final) Appendix for BCCNTR	644116			X	0004			
				X		Development	44423H	X			0004			
				X		Develop CPC's	54423H	X			0004			
				X		Code & Unit Test	644117			X	0004			
				X		Integr. & Test to CPC Level	644118			X	0004			

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	1	2	3	4	5	6							
				X			Test	44424H			X	0004	
					X		Test	54424H			X	0004	
				X			Test at the CPC & CPCI Levels	644119			X	0004	
				X			Develop SW Test Procedures	644120			X	0004	
				X			Support Test & Verification	644121			X	0004	
				X			Prepare Test Reports	644122			X	0004	

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	1	2	3	4	5	6							
				X			Documentation	44425H	X			0004	
				X			Prepare As-built Documentation	54425H	X			0004	
				X			Prepare Inputs to User, Operator and Data Base Administration Manuals	644123	X			0004	
				X			CPCI Listings As-built	644124	X			0004	
				X			Prepare Inputs to Training Manuals	644126	X			0004	
				X			Prepare As-built Part II Specs.	644127	X			0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			BQUERY CPCI: Query - IOC	344208	X			0004			
				X			Critical Design	44422I	X			0004			
					X		Prepare Build-to Design Specs.	54422I	X			0004			
					X		Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644128	X			0004			
					X		Prepare Prelim. Programmer's Manual	644129	X			0004			
					X		Prepare CPCI Test Plan (Final) Appendix for BQUERY	644130		X		0004			
				X			Development	44423I	X			0004			
				X			Develop CPC's	54423I	X			0004			
					X		Code & Unit Test	644131		X		0004			
					X		Integr. & Test to CPC Level	644132		X		0004			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Test	44424I			X	0004	
					X		Test	54424I			X	0004	
				X			Test at the CPC & CPCI Levels	644133			X	0004	
				X			Develop SW Test Procedures	644134			X	0004	
				X			Support Test & Verification	644135			X	0004	
				X			Prepare Test Reports	644136			X	0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Documentation	44425I	X			0004	
					X		Prepare As-built Documentation	54425I	X			0004	
					X		Prepare Inputs to User, Operator and Data Base Administration Manuals	644137	X			0004	
					X		CPCI Listings As-built	644138	X			0004	
					X		Prepare Programmer's Manual (Final)	644139	X			0004	
					X		Prepare Inputs to Training Manuals	644140	X			0004	
					X		Prepare As-built Part II Specs.	644141	X			0004	

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	1	2	3	4	5	6									
				X			BAPPLS								
				X			CPCI: Applications Support - IOC	344209	X		0004				
				X			Critical Design	44422J	X		0004				
					X		Prepare Build-to Design Specs.	54422J	X		0004				
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644142	X		0004				
				X			Prepare Prelim. Programmer's Manual	644143	X		0004				
				X			Prepare CPCI Test Plan (Final) Appendix for BAPPLS	644144		X	0004				
				X			Development	44423J	X		0004				
				X			Develop CPC's	54423J	X		0004				
				X			Code & Unit Test	644145		X	0004				
				X			Integr. & Test to CPC Level	644146		X	0004				

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	1	2	3	4	5	6									
				X			Test	44424J			X		0004		
				X			Test	54424J			X		0004		
				X			Test at the CPC & CPCI Levels	644147			X		0004		
				X			Develop SW Test Procedures	644148			X		0004		
				X			Support Test & Verification	644149			X		0004		
				X			Prepare Test Reports	644150			X		0004		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82		
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			Documentation	44425J	X			0004	These documentation costs were erroneously budgeted in WBS #54423J, Develop CPC's, page 107.	
				X			Prepare As-built Documentation	54425J	X			0004		
				X			CPCI Listings As-built	644152	X			0004		
				X			Prepare Programmer's Manual (Final)	644153	X			0004		
				X			Prepare Inputs to Training Manuals	644154	X			0004		
				X			Prepare As-built Part II Specs.	644155	X			0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			BDMAPS							
				X			CPCI: DBM Application Support - IOC	344210	X		0004			
				X			Critical Design	44422K	X		0004			
					X		Prepare Build-to Design Specs.	54422K	X		0004			
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644156	X		0004			
				X			Prepare Prelim. Programmer's Manual	644157	X		0004			
				X			Prepare CPCI Test Plan (Final) Appendix for BDMAPS	644158		X	0004			
				X			Development	44423K	X		0004			
				X			Develop CPC's	54423K	X		0004			
				X			Code & Unit Test	644159		X	0004			
				X			Integr. & Test to CPC Level	644160		X	0004			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Test	44424K			X	0004	
					X		Test	54424K			X	0004	
						X	Test at the CPC & CPCI Levels	644161			X	0004	
						X	Develop SW Test Procedures	644162			X	0004	
						X	Support Test & Verification	644163			X	0004	
						X	Prepare Test Reports	644164			X	0004	

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82	
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	1	2	3	4	5	6									
				X			Documentation	44425K	X			0004			
					X		Prepare As-built Documentation	54425K	X			0004			
					X		CPCI Listings As-built	644166	X			0004			
					X		Prepare Programmer's Manual (Final)	644167	X			0004			
					X		Prepare Inputs to Training Manuals	644168	X			0004			
					X		Prepare As-built Part II Specs.	644169	X			0004			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			BTDEV CPCI: Test & Training - IOC	344211	X			0004		
				X			Critical Design	44422L	X			0004		
					X		Prepare Build-to Design Specs.	54422L	X			0004		
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644170	X			0004		
				X			Prepare Prelim. Programmer's Manual	644171	X			0004		
				X			Prepare CPCI Test Plan (Final) Appendix for BTDEV	644172		X		0004		
				X			Development	44423L	X			0004		
				X			Develop CPC's	54423L	X			0004		
				X			Code & Unit Test	644173		X		0004		
				X			Integr. & Test to CPC Level	644174		X		0004		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Test	44424L			X		0004		
				X			Test	54424L			X		0004		
				X			Test at the CPC & CPCI Levels	644175			X		0004		
				X			Develop SW Test Procedures	644176			X		0004		
				X			Support Test & Verification	644177			X		0004		
				X			Prepare Test Reports	644178			X		0004		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			Documentation	44425L	X			0004		
					X		Prepare As-built Documentation	54425L	X			0004		
				X			Prepare Inputs to User, Operator and Data Base Admin. Manuals	644179	X			0004		
				X			CPCI Listings As-built	644180	X			0004		
				X			Prepare Programmer's Manual (Final)	644181	X			0004		
				X			Prepare Inputs to Training Manuals	644182	X			0004		
				X			Prepare As-built Part II Specs.	644183	X			0004		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			WAPPLS								
				X			CPCI: Work Station Applications - IOC	344212	X		0004				
				X			Critical Design	44422M	X		0004				
					X		Prepare Build-to Design Specs.	54422M	X		0004				
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644184	X		0004				
				X			Prepare Prelim. Programmer's Manual	644185	X		0004				
				X			Prepare CPCI Test Plan (Final) Appendix for WAPPLS	644186		X	0004				
				X			Development	44423M	X		0004				
				X			Develop CPC's	54423M	X		0004				
				X			Code & Unit Test	644187		X	0004				
				X			Integr. & Test to CPC Level	644188		X	0004				

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT		RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82			
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Test	44424M			X	0004	
				X			Test	54424M			X	0004	
				X			Test at the CPC & CPCI Levels	644189			X	0004	
				X			Develop SW Test Procedures	644190			X	0004	
				X			Support Test & Verification	644191			X	0004	
				X			Prepare Test Reports	644192			X	0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			Documentation	44425M	X			0004		
					X		Prepare As-built Documentation	54425M	X			0004		
					X		Prepare Inputs to User, Operator and Data Base Administration Manuals	644193	X			0004		
					X		CPCI Listings As-built	644194	X			0004		
					X		Prepare Programmer's Manual (Final)	644195	X			0004		
					X		Prepare Inputs to Training Manuals	644196	X			0004		
					X		Prepare As-built Part II Specs.	644197	X			0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
				X			BEXSUP									
				X			CPCI: Exploitation Support - IOC	344213	X		0004					
				X			Critical Design	44422N	X		0004					
					X		Prepare Build-to Design Specs.	54422N	X		0004					
				X			Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644198	X		0004					
				X			Prepare Prelim. Programmer's Manual	644199	X		0004					
				X			Prepare CPCI Test Plan (Final) Appendix for BEXSUP	644200		X	0004					
				X			Development	44423N	X		0004					
				X			Develop CPC's	54423N	X		0004					
				X			Code & Unit Test	644201		X	0004					
				X			Integr. & Test to CPC Level	644202		X	0004					

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	1	2	3	4	5	6									
				X			Test	44424N			X	0004			
					X		Test	54424N			X	0004			
						X	Test at the CPC & CPCI Levels	644203			X	0004			
						X	Develop SW Test Procedures	644204			X	0004			
						X	Support Test & Verification	644205			X	0004			
						X	Prepare Test Reports	644206			X	0004			

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	1	2	3	4	5	6								
				X			Documentation	44425N	X			0004		
					X		Prepare As-built Documentation	54425N	X			0004		
				X			CPCI Listings As-built	644208	X			0004		
				X			Prepare Programmer's Manual (Final)	644209	X			0004		
				X			Prepare Inputs to Training Manuals	644210	X			0004		
				X			Prepare As-built Part II Specs.	644211	X			0004		

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	1	2	3	4	5	6								
		X					Software Development (FOC)	245000	X			0005		
			X				Software Development Management	345100	X			0005		
				X			Software Development Management	445100	X			0005		
					X		Manage All SW Devel. Activities	545100	X			0005		
						X	Manage All SW Devel. Activities	645001	X			0005		
						X	Provide & Enforce Program Design, Coding & Test Practices, Standards & Conventions	545101	X			0005	Reserved	
						X	Software Architecture	545102	X			0005		
						X	Software Engineering	645004	X			0005		
						X	Tech. Support to Subcontract Mgm't.	645005	X			0005	Reserved	

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	1	2	3	4	5	6							
					X	Software Control	645008	X			0005		
					X	Library Control	545103	X			0005		
					X	Software Builds & Releases	645009	X			0005		
					X	Provide Inputs to Segment Devel. Plan	545104	X			0005	Reserved	
					X	Provide Inputs to Segment Devel. Plan	645010	X			0005	Reserved	

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	1	2	3	4	5	6									
					X		Data Base Implementation (FOC)	545105	X			0005	Reserved		
					X		Data Base Package	645013	X			0005	Reserved		
					X		Data Base Support to Development and Test & Verification	645014	X			0005	Reserved		

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	1	2	3	4	5	6							
				X			BMMGMT						
					X		CPCI: Materials Management - FOC	345200	X		0005		
					X		Critical Design	44522A	X		0005		
					X		Prepare Build-to Design Specs.	54522A	X		0005		
					X		Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	645015	X		0005		
					X		Prepare Prelim. Programmer's Manual	645016	X		0005		
					X		Prepare CPCI Test Plan (Final) Appendix for BMMGMT	645017		X	0005		
					X		Development	44523A	X		0005		
					X		Develop CPC's	54523A	X		0005		
					X		Code & Unit Test	645018		X	0005		
				X		Integr. & Test to CPC Level	645019		X	0005			

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	1	2	3	4	5	6								
				X			Test	44524A			X	0005		
					X		Test	54524A			X	0005		
					X		Test at the CPC & CPCI Levels	645020			X	0005		
					X		Develop SW Test Procedures	645021			X	0005		
					X		Support Test & Verification	645022			X	0005		
					X		Prepare Test Reports	645023			X	0005		

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	1	2	3	4	5	6									
				X			Documentation	44525A	X			0005			
				X			Prepare As-built Documentation	54525A	X			0005			
				X			Prepare Inputs to User, Operator and Data Base Administration Manuals	645024	X			0005			
				X			CPCI Listings As-built	645025	X			0005			
				X			Prepare Programmer's Manual (Final)	645026	X			0005			
				X			Prepare Inputs to Training Manuals	645027	X			0005			
				X			Prepare As-built Part II Specs.	645028	X			0005			

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	1	2	3	4	5	6							
				X		BCCNTR CPCI: Command & Control - FOC	345201	X			0005		
				X		Critical Design	44522B	X			0005		
					X	Prepare Build-to Design Specs.	54522B	X			0005		
					X	Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	645029	X			0005		
					X	Prepare Prelim. Programmer's Manual	645030	X			0005		
					X	Prepare CPCI Test Plan (Final) Appendix for BCCNTR	645031			X	0005		
				X		Development	44523B	X			0005		
				X		Develop CPC's	54523B	X			0005		
					X	Code & Unit Test	645032			X	0005		
					X	Integr. & Test to CPC Level	645033			X	0005		



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	1	2	3	4	5	6								
				X			Documentation	44525B	X			0005		
				X			Prepare As-built Documentation	54525B	X			0005		
				X			CPCI Listings As-built	645039	X			0005		
				X			Prepare Programmer's Manual (Final)	645040	X			0005		
				X			Prepare As-built Part II Specs.	645042	X			0005		

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	1	2	3	4	5	6									
				X			BTIDEV								
				X			CPCI: Test & Training - FOC	345202	X			0005			
				X			Critical Design	44522C	X			0005			
					X		Prepare Build-to Design Specs.	54522C	X			0005			
					X		Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	645043	X			0005			
					X		Prepare Prelim. Programmer's Manual	645044	X			0005			
					X		Prepare CPCI Test Plan (Final) Appendix for BTIDEV	645045		X		0005			
				X			Development	44523C	X			0005			
					X		Develop CPC's	54523C	X			0005			
					X		Code & Unit Test	645046		X		0005			
					X		Integr. & Test to CPC Level	645047		X		0005			

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	1	2	3	4	5	6									
				X			Test	44524C			X	0005			
					X		Test	54524C			X	0005			
					X		Test at the CPC & CPCI Levels	645048			X	0005			
					X		Develop SW Test Procedures	645049			X	0005			
					X		Support Test & Verification	645050			X	0005			
					X		Prepare Test Reports	645051			X	0005			

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	1	2	3	4	5	6									
				X			Documentation	44525C	X			0005			
					X		Prepare As-built Documentation	54525C	X			0005			
				X			Prepare Inputs to User, Operator and Data Base Admin. Manuals	645052	X			0005			
				X			CPCI Listings As-built	645053	X			0005			
				X			Prepare Programmers Manual, Final	645054	X			0005			
				X			Prepare Inputs to Training Manuals	645055	X			0005			
				X			Prepare As-built Part II Specs.	645056	X			0005			

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	1	2	3	4	5	6							
		X					Hardware Development (BOC)	246000	X			0006	
			X				Hardware Development Management BOC	346100	X			0006	
				X			Hardware Development Management BOC	446100	X			0006	
					X		Manage All Hardware Development	546100	X			0006	
						X	Manage All Hardware Development	646100	X			0006	
						X	Set and Maintain HW Design, Fab and Test Practices, Standards & Conventions	546101	X			0006	Reserved
						X	Provide Inputs to Segment Devel. Plan	546102	X			0006	Reserved

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	1	2	3	4	5	6								
			X				CI: Basic IWS (BOC)	346200	X			0006		
			X				Prelim. Design	446210	X			0006		
				X			Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546210	X			0006	No Labor	
				X			Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	646200	X			0006		
				X			Prepare CI Specifications and Conduct Internal Design Reviews	546211	X			0006	Reserved	

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	1	2	3	4	5	6								
					X		Accomplish Prelim. Design of Commercial Product Modifications	546212	X			0006	Reserved	
				X			Critical Design	446220	X			0006		
				X			Accomplish Detailed Design of CI	546220	X			0006	No Labor	
				X			Accomplish Detailed Design of CI	646203	X			0006		
				X			Prepare Build-to Component Specs. and Conduct Internal Design Reviews	546221	X			0006	No Labor	
				X			Accomplish Critical Design of Commercial Product Modifications	546223	X			0006	Reserved	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT		RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82				
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV MANUF TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6								
				X			Development	446230	X			0006		
				X			Accomplish Fab. of All Manufactured HW	546230		X		0006	No Labor	
				X			Accomplish Fab. of All Manufactured HW	646206		X		0006		
				X			Accomplish Modif. of Commercial Products	546231		X		0006	Reserved	
				X			Prepare As-built Component Specs.	546232	X			0006	Reserved	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X		Test All HW at Component and CI Levels Prior to Intergration (incl. TEMPEST)	546241			X	0006	Reserved	
					X		Support Test and Verification	546242			X	0006	Reserved	
				X			Documentation	446250	X			0006		
				X			Prepare Equipment Operation and Maintenance Manuals	546250	X			0006		
				X			Prepare Equipment Operation and Maintenance Manuals	646253	X			0006		
				X			Prepare Inputs to Segment/System Operations and User Manuals	546251	X			0006	Reserved	
				X			Prepare Inputs to Training Manuals	546252	X			0006	Reserved	

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
			X				CI: Enhanced IWS (BOC)	346201	X			0006			
			X				Prelim. Design	446211	X			0006			
				X			Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546213	X			0006			
				X			Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	646217	X			0006			
				X			Prepare CI Specifications and Conduct Internal Design Reviews	546214	X			0006			
				X			Prepare CI Specifications and Conduct Internal Design Reviews	646218	X			0006			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. 82-B-015 CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X		Accomplish Prelim. Design of Commercial Product Modifications	546215	X			0006	Reserved	
				X			Critical Design	446221	X			0006		
				X			Accomplish Detailed Design of CI	546224	X			0006	Reserved	
				X			Prepare Build-to Component Specs. and Conduct Internal Design Reviews	546225	X			0006		
					X		Prepare Build-to Component Specs. and Conduct Internal Design Reviews	646221	X			0006		
					X		Accomplish Critical Design of Commercial Product Modifications	546226	X			0006	Reserved	

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Development	446231	X			0006	Reserved		
				X			Accomplish Fab. of All Manufactured HW	546232		X		0006	Reserved		
				X			Accomplish Modif. of Commercial Products	546233		X		0006	Reserved		
				X			Prepare As-built Component Specs.	546234	X			0006	Reserved		



WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
					X		Test All HW at Component and CI Levels Prior to Intergration (incl. TEMPEST)	546244			X	0006	Reserved			
					X		Support Test and Verification	546245			X	0006				
					X		Support Test and Verification	646231			X	0006				
				X			Documentation	446251	X			0006				
				X			Prepare Equipment Operation and Maintenance Manuals	546253	X			0006				
				X			Prepare Equipment Operation and Maintenance Manuals	646232	X			0006				
				X			Prepare Inputs to Segment/System Operations and User Manuals	546254	X			0006				
				X			Prepare Inputs to Segment/System Operations and User Manuals	646233	X			0006				
				X			Prepare Inputs to Training Manuals	546255	X			0006				
				X			Prepare Inputs to Training Manuals	646234	X			0006				

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
			X				CI: Full Capability (BOC)	346202	X		0006		
			X				Prelim. Design	446212	X		0006	Reserved	
				X			Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546216	X		0006	Reserved	
				X			Prepare CI Specifications and Conduct Internal Design Reviews	546217	X		0006	Reserved	

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WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Development	446232	X			0006	Reserved		
				X			Accomplish Fab. of All Manufactured HW	546236		X		0006	Reserved		
				X			Accomplish Mod. of Commercial Products	546237		X		0006	Reserved		
				X			Prepare As-built Component Specs.	546238	X			0006	Reserved		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
			X				Test	446242		X		0006	Reserved			
				X			Prepare Hardware Test & TEMPEST Test Procedures	546246		X		0006	Reserved			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
					X		546247			X	0006	Reserved	
					X		546248			X	0006	Reserved	
				X			446252	X			0006		
				X			546256	X			0006		
				X			546257	X			0006	Reserved	
				X			546258	X			0006	Reserved	
				X			646250	X			0006		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM			NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
		X					Hardware Development (IOC)	247000	X			0007				
			X				Hardware Development Management	347100	X			0007				
				X			Hardware Development Management	447100	X			0007				
					X		Manage All Hardware Development	547100	X			0007				
						X	Manage All Hardware Development	647100	X			0007				
						X	Set and Maintain HW Design, Fab and Test Practices, Standards & Conventions	547101	X			0007	Reserved			
						X	Provide Inputs to Segment Devel. Plan	547102	X			0007	Reserved			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
			X				CI: Basic IWS (IOC)	347200	X			0007		
			X				Critical Design	447220	X			0007	Reserved	
				X			Accomplish Detailed Design of CI	547220	X			0007	Reserved	
				X			Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547221	X			0007	Reserved	
					X		Accomplish Critical Design of Commercial Product Modifications	547222	X			0007	Reserved	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82		
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
				X			Development	447230	X			0007	Reserved	
				X			Accomplish Fab. of All Manufactured HW	547230		X		0007	Reserved	
				X			Accomplish Modif. of Commercial Products	547231		X		0007	Reserved	
				X			Prepare As-built Component Specs.	547232	X			0007	Reserved	



WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X		Test All HW at Component and CI Levels Prior to Intergration (incl. TEMPEST)	547241			X	0007	Reserved	
					X		Support Test and Verification	547242			X	0007	Reserved	
			X				Documentation	447250	X			0007		
			X				Prepare Equipment Operation and Maintenance Manuals	547250	X			0007		
			X				Prepare Inputs to Segment/System Operations and User Manuals	547251	X			0007	Reserved	
			X				Prepare Inputs to Training Manuals	547252	X			0007	Reserved	
				X			Prepare Equipment Operations and Maintenance Manuals	647212	X			0007		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
			X				CI: Enhanced IWS - IOC	347201	X		0007		
			X				Critical Design	447221	X		0007	Reserved	
				X			Accomplish Detailed Design of CI	547223	X		0007	Reserved	
				X			Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547224	X		0007	Reserved	
					X		Accomplish Critical Design of Commercial Product Modifications	547225	X		0007	Reserved	

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Development	447231	X			0007			
				X			Accomplish Fab. of All Manufactured HW	547233		X		0007	Reserved		
				X			Accomplish Modif. of Commercial Products	547234		X		0007	Reserved		
				X			Prepare As-built Component Specs.	547235	X			0007	No Labor		
				X			Prepare Mfg. Drawing Packages	647222	X			0007			

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Test	447241			X		0007		
					X		Prepare Hardware Test & TEMPEST Test Procedures	547243			X		0007	Reserved	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X		Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	547244			X	0007	Reserved	
					X		Support Test and Verification	547245			X	0007		
					X		Support Test and Verification	647226			X	0007		
				X			Documentation	447251	X			0007		
				X			Prepare Equipment Operation and Maintenance Manuals	547253	X			0007		
				X			Prepare Inputs to Segment/System Operations and User Manuals	547254	X			0007	Reserved	
				X			Prepare Inputs to Training Manuals	547255	X			0007	Reserved	
				X			Prepare Equipment Operations and Maintenance Manuals	647227	X			0007		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
			X				CI: Full Capability IWS - IOC	347202	X			0007				
			X				Critical Design	447222	X			0007	No Labor			
				X			Accomplish Detailed Design of CI	547226	X			0007				
				X			Accomplish Detailed Design of CI	647230	X			0007				
				X			Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547227	X			0007	No Labor			
				X			Prepare Build-to Component Specs. and Conduct Internal Design Reviews	647231	X			0007				
				X			Accomplish Critical Design of Commercial Product Modifications	547228	X			0007	No Labor			
				X			Accomplish Critical Design of Commercial Product Modifications	647232	X			0007				

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
				X			Development	447232	X		0007	Reserved	
				X			Accomplish Fab. of All Manufactured HW	547236	X		0007	Reserved	
				X			Accomplish Modif. of Commercial Products	547237	X		0007	Reserved	
				X			Prepare As-built Component Specs.	547238	X		0007	Reserved	

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
				X			Test	447242			X	0007	Reserved			
					X		Prepare Hardware Test & TEMPEST Test Procedures	547246			X	0007	Reserved			

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT		RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82				
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X		Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	547247			X	0007	Reserved	
					X		Support Test and Verification	547248			X	0007	Reserved	
				X			Documentation	447252	X			0007		
				X			Prepare Equipment Operation and Maintenance Manuals	547256	X			0007		
				X			Prepare Equipment Operation and Maintenance Manuals	647242	X			0007		
				X			Prepare Inputs to Segment/System Operations and User Manuals	547257	X			0007	Reserved	
				X			Prepare Inputs to Training Manuals	547258	X			0007	Reserved	

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
		X					Hardware Development (FOC)	248000	X			0008	Reserved			
			X				Hardware Development Management	348100	X			0008				
				X			Hardware Development Management	448100	X			0008				
					X		Manage All Hardware Development	548100	X			0008				
					X		Manage All Hardware Development	648100	X			0008				
					X		Set and Maintain HW Design, Fab and Test Practices, Standards & Conventions	648101	X			0008				
						X	Provide Inputs to Segment Devel. Plan	548102	X			0008				

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
			X				CI: Basic IWS - FOC	348200	X			0008			
			X				Critical Design	448220	X			0008	Reserved		
				X			Accomplish Detailed Design of CI	548220	X			0008	Reserved		
			X				Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548221	X			0008	Reserved		
			X				Accomplish Critical Design of Commercial Product Modifications	548222	X			0008	Reserved		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
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	1	2	3	4	5	6									
				X			Development	448230	X			0008	Reserved		
				X			Accomplish Fab. of All Manufactured HW	548230		X		0008	Reserved		
				X			Accomplish Modif. of Commercial Products	548231		X		0008	Reserved		
				X			Prepare As-built Component Specs.	548232	X			0008	Reserved		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
				X			Test	448240			X		0008	Reserved	
					X		Prepare Hardware Test & TEMPEST Test Procedures	548240			X		0008	Reserved	

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM NPIC D/C SEGMENT		RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82				
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X		Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	548241			X	0008	Reserved	
					X		Support Test and Verification	548242			X	0008	Reserved	
				X			Documentation	448250	X			0008		
				X			Prepare Equipment Operation and Maintenance Manuals	548250	X			0008		
				X			Prepare Inputs to Segment/System Operations and User Manuals	548251	X			0008	Reserved	
				X			Prepare Inputs to Training Manuals	548252	X			0008	Reserved	
				X			Prepare Equipment Operations and Maintenance Manuals	648212	X			0008		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
			X				CI: Enhanced IWS - FOC	348201	X			0008			
			X				Critical Design	448221	X			0008	Reserved		
				X			Accomplish Detailed Design of CI	548223	X			0008	Reserved		
				X			Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548224	X			0008	Reserved		
				X			Accomplish Critical Design of Commercial Product Modifications	548225	X			0008	Reserved		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
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	1	2	3	4	5	6									
				X			Development	448231	X			0008	Reserved		
				X			Accomplish Fab. of All Manufactured HW	548233		X		0008	Reserved		
				X			Accomplish Modif. of Commercial Products	548234		X		0008	Reserved		
				X			Prepare As-built Component Specs.	548235	X			0008	Reserved		

WORK BREAKDOWN STRUCTURE INDEX							PROGRAM		NPIC D/C SEGMENT				RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82	
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	1	2	3	4	5	6										
				X			Test	448241			X	0008	Reserved			
				X			Prepare Hardware Test & TEMPEST Test Procedures	548243			X	0008	Reserved			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X		Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	548244			X	0008	Reserved	
					X		Support Test and Verification	548245			X	0008	Reserved	
				X			Documentation	448251	X			0008		
				X			Prepare Equipment Operation and Maintenance Manuals	548253	X			0008		
				X			Prepare Inputs to Segment/System Operations and User Manuals	548254	X			0008	Reserved	
				X			Prepare Inputs to Training Manuals	548255	X			0008	Reserved	
				X			Prepare Equipment Operations and Maintenance Manuals	648227	X			0008		

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	1	2	3	4	5	6									
			X				CI: Full Capability IWS - FOC	348202	X			0008			
			X				Critical Design	448222	X			0008			
				X			Accomplish Detailed Design of CI	548226	X			0008	Reserved		
				X			Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548227	X			0008	Reserved		
					X		Accomplish Critical Design of Commercial Product Modifications	548228	X			0008			
						X	Accomplish Critical Design of Commerical Product Modifications	648232	X			0008			

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	1	2	3	4	5	6									
				X			Development	448232	X			0008	Reserved		
				X			Accomplish Fab. of All Manufactured HW	548236		X		0008	Reserved		
				X			Accomplish Modif. of Commercial Products	548237		X		0008	Reserved		
				X			Prepare As-built Component Specs.	548238	X			0008	Reserved		

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	1	2	3	4	5	6										
				X			Test	448242			X		0008	Reserved		
					X		Prepare Hardware Test & TEMPEST Test Procedures	548246			X		0008	Reserved		

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	1	2	3	4	5	6							
					X	Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	548247			X	0008	Reserved	
					X	Support Test and Verification	548248			X	0008	Reserved	
				X		Documentation	448252	X			0008		
				X		Prepare Equipment Operation and Maintenance Manuals	548256	X			0008		
				X		Prepare Inputs to Segment/System Operations and User Manuals	548257	X			0008	Reserved	
				X		Prepare Inputs to Training Manuals	548258	X			0008	Reserved	
					X	Prepare Equipment Operations and Maintenance Manuals	648242	X			0008		

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	1	2	3	4	5	6										
		X					Automated Data Processing Equipment (ADPE) Hardware and Software	249000	X			0009				
			X				Procurement	349100	X			0009				
			X				Management	449100	X			0009				
				X			Management	549100	X			0009				
					X		Manage All ADPE Procurement Activities - BOC	649100	X			0009				
					X		Manage All ADPE Procurement Activities - IOC	649101	X			0009				
					X		Provide & Enforce All Procurement Practices, Standards & Conventions - BOC	649103	X			0009				
					X		Provide & Enforce All Procurement Practices, Standards & Conventions - IOC	649104	X			0009				

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	1	2	3	4	5	6									
				X			Procure ADPE (Include Labor Plus the Actual Equipment & Product Costs)	449101	X			0009	Reserved		
					X		Procure Commercial CPCI's	549101	X			0009			
				X			Project Labor to Support Procurement - BOC	649106	X			0009			
				X			Project Labor to Support Procurement - IOC	649107	X			0009			
				X			Project Labor to Support Procurement - FOC	649108	X			0009			
				X			Procurement - BOC	649109	X			0009			
				X			Procurement - IOC	649110	X			0009			
				X			Procure Commercial CI's	549102	X			0009			
				X			Project Labor to Support Procurement - BOC	649112	X			0009			
				X			Project Labor to Support Procurement - IOC	649113	X			0009			

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	1	2	3	4	5	6									
					X	Procure - BOC	649115	X			0009				
					X	Procure - IOC	649116	X			0009	Reserved			
			X			Test	349200			X	0009				
			X			Accomplish Acceptance Testing of Commercial ADPE	449200			X	0009	Reserved			
				X		Acceptance Test Commercial CPCI's - BOC	549200			X	0009	Reserved			

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	1	2	3	4	5	6								
					X		Acceptance Test Commercial CI's	549201			X	0009	Reserved	

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	1	2	3	4	5	6									
			X				GFE	349300	X			0009	} These GFE installation/checkout costs were erroneously budgeted under WBS 549301, this page.		
			X				Install & Checkout GFE	449300	X			0009			
				X			Install & Checkout GFE	549300	X			0009			
				X			Install & Checkout GFE - BOC	649300	X			0009			
			X				Provide GFE Maintenance	449301	X			0009			
				X			Provide GFE Maintenance	549301	X			0009			
			X				Provide GFE Maintenance - BOC	649301	X			0009			
			X				Provide GFE Maintenance - FOC	649303	X			0009			

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	1	2	3	4	5	6								
		X					Test and Verification - BOC	241000			X	0010		
			X				Test & Verification Management	341010	X			0010		
				X			Test & Verification Management	441010	X			0010		
					X		Test & Verification Management	541010	X			0010		
						X	Provide Mgm't. of Segment Test Activities - BOC	641010	X			0010		
						X	Prepare Test Plans - BOC	641011		X		0010		
						X	Prepare Test Procedures - BOC	641012		X		0010		
						X	Prepare Test Plan for GFE Equipment - BOC	641013		X		0010		
			X				Test Support	341020		X		0010		
				X			Test Support	441020		X		0010		
					X		Test Support	541020		X		0010		
						X	Provide Necessary Software to Support Integrated Testing - BOC	641020		X		0010		

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	1	2	3	4	5	6							
					X	Provide Necessary Hardware to Support Integrated Testing - BOC	641021			X	0010		
					X	Provide Necessary Data to Support Integrated Testing - BOC	641022			X	0010		
			X			Integration Test	341030			X	0010		
			X			Integration Test	441030			X	0010		
				X		Integration Test	541030			X	0010		
				X		Accomplish Inter-CI Testing - BOC	641030			X	0010		
				X		Accomplish Inter-CPCI Testing - BOC	641031			X	0010		
				X		Accomplish Integrated CPCI/CI Testing - BOC	641032			X	0010		
				X		Provide Integration Test Reports - BOC	641033			X	0010		

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	1	2	3	4	5	6									
			X				Factory Preship Test	341040			X	0010			
			X				Factory Preship Test	441040			X	0010			
				X			Factory Preship Test	541040			X	0010			
			X				Perform Formal Preship Test - BOC	641040			X	0010			
			X				Provide Preship Test Report - BOC	641041			X	0010			

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	1	2	3	4	5	6								
					X	Provide Necessary Hardware to Support Integrated Testing - IOC	641121			X	0011			
					X	Provide Necessary Data to Support Integrated Testing - IOC	641122			X	0011			
			X			Integration Test	341130			X	0011			
			X			Integration Test	441130			X	0011			
				X		Integration Test	541130			X	0011			
				X		Accomplish Inter-CI Testing - IOC	641130			X	0011			
				X		Accomplish Inter-CPCI Testing - IOC	641131			X	0011			
				X		Accomplish Integrated CPCI/CI Testing - IOC	641132			X	0011			
				X		Provide Integration Test Reports - IOC	641133			X	0011			

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	1	2	3	4	5	6										
			X				Factory Preship Test	341140			X		0011			
			X				Factory Preship Test	441140			X		0011			
				X			Factory Preship Test	541140			X		0011			
				X			Perform Formal Preship Test - IOC	641140			X		0011			
				X			Provide Preship Test Report - IOC	641141			X		0011			

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	1	2	3	4	5	6							
		X					Test and Verification - FOC	241200			X	0012	
			X				Test & Verification Management	341210	X			0012	
				X			Test & Verification Management	441210	X			0012	
					X		Test & Verification Management	541210	X			0012	
						X	Provide Mgm't. of Segment Test Activities - FOC	641210	X			0012	
						X	Prepare Test Plans - FOC	641211		X		0012	Reserved
						X	Prepare Test Procedures - FOC	641212		X		0012	Reserved
			X				Test Support	341220		X		0012	Reserved
				X			Test Support	441220		X		0012	Reserved
					X		Test Support	541220		X		0012	Reserved
						X	Provide Necessary Software to Support Integrated Testing - FOC	641220		X		0012	Reserved

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	1	2	3	4	5	6								
					X	Provide Necessary Hardware to Support Integrated Testing - FOC	641221			X	0012	Reserved		
					X	Provide Necessary Hardware to Support Integrated Testing	641222			X	0012	Reserved		
			X			Integration Test - FOC	341230			X	0012	Reserved		
			X			Integration Test	441230			X	0012	Reserved		
				X		Integration Test	541230			X	0012	Reserved		
					X	Accomplish Inter-CI Testing	641230			X	0012	Reserved		
					X	Accomplish Inter-CPCI Testing	641231			X	0012	Reserved		
					X	Accomplish Integrated CPCI/CI Testing	641232			X	0012	Reserved		
					X	Provide Integration Test Reports	641233			X	0012	Reserved		

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	1	2	3	4	5	6							
			X				341240			X	0012	Reserved	
			X				441240			X	0012	Reserved	
				X			541240			X	0012	Reserved	
				X			641240			X	0012	Reserved	

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	1	2	3	4	5	6								
		X					Installation, Checkout and Test - BOC	241300			X	0013		
			X				Install., Checkout & Test Management	341310	X			0013		
				X			Install., Checkout & Test Management	441310	X			0013		
					X		Install., Checkout & Test Management	541310	X			0013		
						X	Provide Management of Installation and Checkout Activities - BOC	641310	X			0013		
		X					Facility Planning - BOC	341320	X			0013		
			X				Facility Planning	441320	X			0013		
				X			Facility Planning	541320	X			0013		
					X		Provide Facility Interface Drawings/Requirements (IDRs) - BOC	641320				0013		
						X	Provide Facility Planning - BOC	641321				0013		

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	1	2	3	4	5	6									
			X				Installation & Checkout - BOC	341330	X			0013			
				X			Installation & Checkout	441330	X			0013			
					X		Installation & Checkout	541330	X			0013			
				X			Prepare Segment Shipping Plan	641330	X			0013			
				X			Prepare Segment Installation Plan	641331	X			0013			
				X			Provide for Shipment, Installation and Checkout of All Segment Items	641332	X			0013			
				X			Accomplish Segment Integration and Transition to Operational Status	641333	X			0013			
			X				Site Segment Test - BOC	341340		X		0013			
			X				Site Segment Test	441340		X		0013			
				X			Site Segment Test	541340		X		0013			
				X			Perform Formal Site Segment Test	641340		X		0013			

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	1	2	3	4	5	6								
					X	Provide Site Segment Test Report	641341			X	0013			
			X			Site Inter-Segment Demos	341350	X			0013			
			X			Site Inter-Segment Demos	441350	X			0013			
				X		Site Inter-Segment Demos	541350	X			0013			
				X		Contribute to System Test Plan and Test Report to be Prepared by the SI - BOC	641350			X	0013			
				X		Participate in On-Site System Testing - BOC	641351			X	0013			
		X				Inter-Program Demos	341360	X			0013			
		X				Inter-Program Demos	441360	X			0013			
			X			Inter-Program Demos	541360	X			0013			
				X		Provide Input to Inter-Program Demonstration Plan to be Prepared by the SI - BOC	641360	X			0013			

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	1	2	3	4	5	6										
					X		Support Program Demos - BOC	641361	X			0013				

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	1	2	3	4	5	6												
		X					Installation, Checkout and Test - IOC	241400			X	0014						
			X				Install., Checkout & Test Management	341410			X	0014						
			X				Install., Checkout & Test Management	441410			X	0014						
				X			Install., Checkout & Test Management	541410			X	0014						
					X		Provide Management of Installation and Checkout Activities	641410	X			0014						
					X		Provide Test Plan	641411			X	0014						
			X				Facility Planning - IOC	341420	X			0014						
			X				Facility Planning	441420	X			0014						
				X			Facility Planning	541420	X			0014						
				X			Provide Facility Interface Drawings/Requirements (IDRs)	641420	X			0014						
				X		Provide Facility Planning	641421	X			0014							

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	1	2	3	4	5	6							
195			X				Installation & Checkout - IOC	341430	X		0014		
				X			Installation & Checkout	441430	X		0014		
					X		Installation & Checkout	541430	X		0014		
				X			Prepare Segment Shipping Plan	641430	X		0014		
				X			Prepare Segment Installation Plan	641431	X		0014		
				X			Provide for Shipment, Installation and Checkout of All Segment Items	641432	X		0014		
				X			Accomplish Segment Integration and Transition to Operational Status	641433	X		0014		
			X				Site Segment Test - IOC	341440		X	0014		
			X				Site Segment Test	441440		X	0014		
				X			Site Segment Test	541440		X	0014		
				X			Perform Formal Site Segment Test	641440		X	0014		

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	1	2	3	4	5	6								
					X	Provide Site Segment Test Report	641441			X	0014			
			X			Site Inter-Segment Demos - IOC	341450	X			0014			
				X		Site Inter-Segment Demos	441450	X			0014			
				X		Site Inter-Segment Demos	541450	X			0014			
				X		Contribute to System Test Plan and Test Report to be Prepared by the SI	641450			X	0014			
				X		Participate in On-Site System Testing	641451			X	0014			
		X				Inter-Program Demos - IOC	341460	X			0014			
			X			Inter-Program Demos	441460	X			0014			
				X		Inter-Program Demos	541460	X			0014			
				X		Provide Input to Inter-Program Demonstration Plan to be Prepared by the SI	641460	X			0014			

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	1	2	3	4	5	6								
					X		Support Program Demos	641461	X			0014		

WORK BREAKDOWN STRUCTURE INDEX						PROGRAM	NPIC D/C SEGMENT			RFP NO. <u>82-B-015</u> CONTRACT NO. _____		DATE: 2-24-82		
LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
		X					Installation, Checkout and Test - FOC	241500			X	0015		
			X				Install., Checkout & Test Management	341510	X			0015		
				X			Install., Checkout & Test Management	441510	X			0015		
					X		Install., Checkout & Test Management	541510	X			0015		
						X	Provide Management of Installation and Checkout Activities - FOC	641510			X	0015		
		X					Facility Planning - FOC	341520	X			0015		
			X				Facility Planning	441520	X			0015		
				X			Facility Planning	541520	X			0015	Reserved	
					X		Provide Facility Interface Drawings/Requirements (IDRs)	641520	X			0015	Reserved	
						X	Provide Facility Planning	641521	X			0015	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	1	2	3	4	5	6							
			X				Installation & Checkout - FOC	341530	X			0015	
				X			Installation & Checkout	441530	X			0015	
					X		Installation & Checkout	541530	X			0015	
					X		Prepare Segment Shipping Plan	641530	X			0015	
					X		Prepare Segment Installation Plan	641531	X			0015	
					X		Provide for Shipment, Installation and Checkout of All Segment Items	641532	X			0015	
					X		Accomplish Segment Integration and Transition to Operational Status	641533	X			0015	
			X				Site Segment Test - FOC	341540		X		0015	
			X				Site Segment Test	441540		X		0015	
				X			Site Segment Test	541540		X		0015	
			X			Perform Formal Site Segment Test	641540		X		0015		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X	Provide Site Segment Test Report	641541			X	0015			
			X			Site Inter-Segment Demos - FOC	341550	X			0015			
			X			Site Inter-Segment Demos	441550	X			0015			
				X		Site Inter-Segment Demos	541550	X			0015			
				X		Contribute to System Test Plan and Test Report to be Prepared by the SI	641550			X	0015			
				X		Participate in On-Site System Testing	641551			X	0015			
			X			Inter-Program Demos - FOC	341560	X			0015			
			X			Inter-Program Demos	441560	X			0015			
				X		Inter-Program Demos	541560	X			0015			
				X		Provide Input to Inter-Program Demonstration Plan to be Prepared by the SI	641560	X			0015			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER			
	1	2	3	4	5	6										
					X		Support Program Demos	641561	X			0015				

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	1	2	3	4	5	6									
		X					Development and Test Facility	241600			X	0016			
			X				Devel. & Test Facility Management	341610	X			0016			
				X			Devel. & Test Facility Management	441610	X			0016			
					X		Devel. & Test Facility Management	541610	X			0016			
						X	Provide Mgmt., Planning & Control of Facilities Req'd. for Analysis, Human Eng'g., Devel., Test and Integr. of All Segment Software & Hardware - BOC	641610	X			0016			
						X	Provide Mgmt., Planning & Control of Facilities Req'd. for Analysis, Human Eng'g., Devel., Test and Integr. of All Segment Software & Hardware - IOC	641611	X			0016			
						X	Provide Mgmt., Planning & Control of Facilities Req'd. for Analysis, Human Eng'g., Devel., Test and Integr. of All Segment Software & Hardware - FOC	641612	X			0016	Reserved		
			X				Devel. & Test Facility Services	341620		X		0016			
				X			Devel. & Test Facility Services	441620		X		0016			
					X		Devel. & Test Facility Services	541620		X		0016			
						X	Devel. Necessary Software Tools, Library Support, etc. for Devel. & Test Facility - BOC	641620		X		0016			
						X	Devel. Necessary Software Tools, Library Spprt., etc. for Devel. & Test Facil-IOC	641621		X		0016			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
			X				Equipment	341630	X			0016	Reserved	
				X			Equipment	441630	X			0016		
					X		Equipment	541630	X			0016		
					X		Provide ADPE Capable of Supporting the Devel. & Test Facility - BOC	641630	X			0016		
					X		Provide ADPE Capable of Supporting the Devel. & Test Facility - IOC	641631	X			0016		
			X				Operations & Maintenance	341640	X			0016		
				X			Operations & Maintenance	441640	X			0016		
					X		Operations & Maintenance	541640	X			0016		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER		
	1	2	3	4	5	6									
						X	Operate the Devel. & Test Facility - BOC	641640			X	0016			
						X	Operate the Devel. & Test Facility - IOC	641641			X	0016			
						X	Maintain the Devel. & Test Facility - BOC	641643			X	0016			
						X	Maintain the Devel. & Test Facility - IOC	641644			X	0016			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
			X				Subcontractor Devel. & Test Facilities	341650			X	0016		
			X				Subcontractor Devel. & Test Facilities	441650			X	0016		
				X			Provide Management, Planning and Control of Facilities	541650	X			0016		
				X			Provide Management, Planning and Control of Facilities - BOC	641650	X			0016		
				X			Provide Management, Planning and Control of Facilities - IOC	641651	X			0016	Reserved	
				X			Provide Management, Planning and Control of Facilities - FOC	641652	X			0016	Reserved	
				X			Services	541651	X			0016	Reserved	
				X			Services - BOC	641653	X			0016	Reserved	
				X			Services - IOC	641654	X			0016	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS						WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER	
	1	2	3	4	5	6								
					X		Services - FOC	641655	X			0006	Reserved	
					X		Equipment	541652	X			0006	Reserved	
					X		Equipment - BOC	641656	X			0006	Reserved	
					X		Equipment - IOC	641657	X			0006	Reserved	
					X		Equipment - FOC	641658	X			0006	Reserved	
					X		Operations & Maintenance	541653	X			0006	Reserved	
					X		Operate Subcontr. Devel. & Test Facil. - BOC	641659			X	0006	Reserved	
					X		Operate Subcontr. Devel. & Test Facil. - IOC	64165A			X	0006	Reserved	
					X		Operate Subcontr. Devel. & Test Facil. - FOC	64165B			X	0006	Reserved	
					X		Maintain Subcontr. Devel. & Test - BOC	64165C			X	0006	Reserved	
					X		Maintain Subcontr. Devel. & Test - IOC	64165D			X	0006	Reserved	
					X		Maintain Subcontr. Devel. & Test - FOC	64165E			X	0006	Reserved	

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	1	2	3	4	5	6								
		X					Training	241700	X			0017	Reserved	
			X				Training Management	341710	X			0017		
				X			Training Management	441710	X			0017		
					X		Training Management	541710	X			0017		
						X	Manage All Training Activities - BOC	641710	X			0017		
						X	Manage All Training Activities - IOC	641711	X			0017		
						X	Manage All Training Activities - FOC	641712	X			0017		
						X	Provide Segment Training Plan - BOC	641713	X			0017		
						X	Provide Segment Training Plan - IOC	641714	X			0017		

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	1	2	3	4	5	6									
			X				User Training	341720	X			0017			
				X			User Training	441720	X			0017			
					X		User Training	541720	X			0017			
					X		Accept Other Segment Inputs and Prepare User Training Materials - BOC	641720	X			0017			
					X		Accept Other Segment Inputs and Prepare User Training Materials - IOC	641721	X			0017			
					X		Accept Other Segment Inputs and Prepare User Training Materials - FOC	641722	X			0017			
					X		Train System Users and Gov't Instructors - BOC	641723	X			0017			
					X		Train System Users and Gov't Instructors - IOC	641724	X			0017			
				X		Train System Users and Gov't Instructors - FOC	641725	X			0017				

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	1	2	3	4	5	6								
			X				Operator Training	341730	X			0017		
				X			Operator Training	441730	X			0017		
					X		Operator Training	541730	X			0017		
				X			Prepare and Deliver Operator Training Materials - BOC	641730	X			0017		
				X			Prepare and Deliver Operator Training Materials - IOC	641731	X			0017		
				X			Prepare and Deliver Operator Training Materials - FOC	641732	X			0017		
				X			Train Segment and System Operators and Management Personnel - BOC	641733	X			0017		
				X			Train Segment and System Operators and Management Personnel - IOC	641734	X			0017		
			X			Train Segment and System Operators and Management Personnel - FOC	641735	X			0017			

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	1	2	3	4	5	6							
			X				Maintenance Training	341740	X			0017	
				X			Maintenance Training	441740	X			0017	
					X		Maintenance Training	541740	X			0017	
					X		Prepare and Deliver Maintenance Training Materials - BOC	641740	X			0017	
					X		Prepare and Deliver Maintenance Training Materials - IOC	641741	X			0017	
					X		Prepare and Deliver Maintenance Training Materials - FOC	641742	X			0017	
					X		Train All Segment Maintenance Personnel - BOC	641743	X			0017	
					X		Train All Segment Maintenance Personnel - IOC	641744	X			0017	
					X		Train All Segment Maintenance Personnel - FOC	641745	X			0017	

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	1	2	3	4	5	6								
		X					Operations & Maintenace (O&M)	241800	X			0018	Reserved	
			X				O & M Management	341810	X			0018		
				X			O & M Management	441810	X			0018		
					X		Provide O & M Project Management	541810	X			0018		
						X	Provide O & M Project Management - BOC	641810	X			0018		
						X	Provide O & M Project Management - IOC	641811	X			0018		
						X	Provide O & M Project Management - FOC	641812	X			0018		
					X		Provide O & M Project Control	541811	X			0018		
						X	Provide O & M Project Control - BOC	641813	X			0018		
						X	Provide O & M Project Control - IOC	641814	X			0018		
						X	Provide O & M Project Control - FOC	641815	X			0018		
			X				Spares	341820	X			0018		
				X			Spares	441820	X			0018		
					X		Spares	541820	X			0018		
						X	Provide Spares Planning - BOC	641820	X			0018		
						X	Provide Spares Planning - IOC	641821	X			0018		
						X	Provide Spares Planning - FOC	641822	X			0018		

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	1	2	3	4	5	6										
			X				Software Maintenance	341830	X			0018				
			X				Software Maintenance	441830	X			0018				
				X			System Engineering	541830	X			0018				
				X			System Engineering - BOC	641830	X			0018				
				X			Software Management	541831	X			0018				
				X			Software Management - IOC	641834	X			0018				

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	1	2	3	4	5	6								
					X	Problem Analysis, Error Correction and Update Documentation	541832	X			0018	These test charges were erroneously budgeted under WBS 541832.		
					X	Problem Analysis, Error Correction and Update Documentation - BOC	641836	X			0018			
					X	Problem Analysis, Error Correction and Update Documentation - IOC	641837	X			0018			
					X	Problem Analysis, Error Correction and Update Documentation - FOC	641838	X			0018			
					X	Test	541833		X		0018			
					X	Test Software Changes - BOC	641839		X		0018			
					X	Test Software Changes - IOC	64183A		X		0018			
					X	Test Software Changes - FOC	64183B		X		0018			
					X	Maintain Commercial Software Products	541834	X			0018	No Labor		
					X	Maintain Commercial Software Products - BOC	64183C	X			0018			
					X	Maintain Commercial Software Products - IOC	64183D	X			0018			

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	1	2	3	4	5	6								
					X	Maintain Commercial Software Products - FOC	64183E	X			0018	No Labor		
			X			Hardware Maintenance	341840	X			0018			
				X		Hardware Maintenance	441840	X			0018			
				X		Problem Analysis, Error Correction and Update Documentation - BOC	541840	X			0018			
				X		Problem Analysis, Error Correction and Update Documentation - IOC	641840	X			0018			
				X		Problem Analysis, Error Correction and Update Documentation - FOC	641841	X			0018			
				X		Problem Analysis, Error Correction and Update Documentation	641842	X			0018			
				X		Maintain Commercial Hardware	541841	X			0018			
				X		Maintain Commercial Hardware - BOC	641843	X			0018			
				X		Maintain Commercial Hardware - IOC	641844	X			0018			
				X		Maintain Commercial Hardware - FOC	641845	X			0018			

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